

WHAT IS CLAIMED IS:

1. A method for wireless transmission of a control command from a transmission element to a measuring probe with electromagnetic signals, the control command including at least one bit sequence, the bit sequence including high bits and at least one low bit, comprising:

generating the high bits in accordance with an enveloping curve of a plurality of electromagnetic signals recurring with a carrier frequency; and

transmitting one low bit between two high bits within one bit sequence.

2. The method according to claim 1, wherein the carrier frequency is lower than 50 kHz.

3. The method according to claim 1, wherein the carrier frequency is lower than 5 kHz.

4. The method according to claim 1, further comprising generating the enveloping curve in accordance with at least eight electromagnetic signals recurring with the carrier frequency.

5. The method according to claim 1, wherein the electromagnetic signals include infrared light pulses.

6. The method according to claim 1, wherein the control command includes a plurality of bit sequences transmitted in series.

7. The method according to claim 1, further comprising:  
converting the electromagnetic signals into one of pulsed electric currents and voltages in a receiver element of a probe system; and  
digitizing the one of the pulsed electric currents and voltages.

8. The method according to claim 7, wherein the electromagnetic signals are converted in the converting step in the measuring probe.

9. The method according to claim 1, further comprising triggering, by the control command, one of an activation of the measuring probe from a stand-by state and a deactivation of the measuring probe into the stand-by state.

10. The method according to claim 9, wherein a first control command triggers the activation of the measuring probe and a different control command triggers deactivation of the measuring probe.

11. The method according to claim 1, wherein the bit sequence includes blocks of high bits having different temporal lengths.

12. A device for wireless transmission of a control command from a transmission element to a measuring probe with electromagnetic signals, the control command including at least one bit sequence, the bit sequence including high bits and at least one low bit, comprising:

an arrangement configured to generate the high bits in accordance with an enveloping curve of a plurality of electromagnetic signals recurring with a carrier frequency;  
and

an arrangement configured to transmit one low bit between two high bits within one bit sequence.

13. A device for wireless transmission of a control command from a transmission element to a measuring probe with electromagnetic signals, the control command including at least one bit sequence, the bit sequence including high bits and at least one low bit, comprising:

means for generating the high bits in accordance with an enveloping curve of a plurality of electromagnetic signals recurring with a carrier frequency; and

means for transmitting one low bit between two high bits within one bit sequence.